

# Converting Colors

$Y_{xy}(36.9171, 0.3072, 0.2189)$

Have a look what the booklet for  
Yxy(36.9171, 0.3072, 0.2189)  
contains.

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**Color**

**Yxy(36.9504, 0.3075, 0.2188)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DC82E7
RGB	220, 130, 231
RGB Percent	86%, 51%, 91%
CMY	0.1371, 0.4903, 0.0941
CMYK	0.05, 0.44, 0.00, 0.09
HSL	293°, 68%, 71%
HSV	293°, 44%, 91%
XYZ	51.9298, 36.9504, 79.9973
YIQ	168.4240, 21.2190, 50.4910

# Conversions

## Conversions Part 2

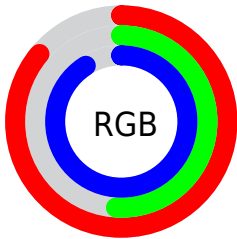
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">220, 130, 231</a>
Decimal	<a href="#">14451431</a>
CIELab	<a href="#">67.24, 49.96, -36.95</a>
CIElCh	<a href="#">67, 62.142, 323.514</a>
Yxy	<a href="#">36.9504, 0.3075, 0.2188</a>
Android (android.graphics.Color)	<a href="#">4292641511 (0xFFDC82E7)</a>
YUV	<a href="#">168.4240, 30.8500, 45.2322</a>
Hunter-Lab	<a href="#">60.7868, 46.1145, -35.4766</a>

# Details

The Yxy color **36.9504, 0.3075, 0.2188** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **64.4223, 0.3130, 0.4626**, and the grayscale version is **39.2150, 0.3127, 0.3290**.

A 20% lighter version of the original color is **63.1779, 0.3159, 0.2604**, and **16.1894, 0.3034, 0.1927** is the 20% darker color. If you saturate the color by 10%, you get **31.0938, 0.3055, 0.1961**, and if you desaturate by 10%, it is **44.1953, 0.3092, 0.2435**.

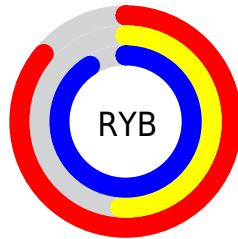
# Distribution



Red (86%)

Green (51%)

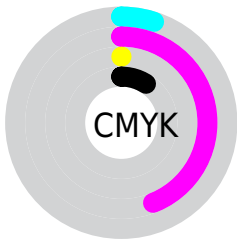
Blue (91%)



Red (86%)

Yellow (51%)

Blue (91%)

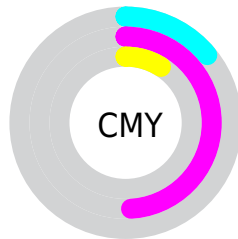


Cyan (5%)

Magenta (44%)

Yellow (0%)

Black (9%)



Cyan (14%)

Magenta (49%)


Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.9504, 0.3075, 0.2188 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 36.9504, 0.3075, 0.2188 by changing the saturation by 10% instead.





 36.9504, 0.3075,  
0.2188


 36.9504, 0.3075,  
0.2188


333.0957, 0.3120,  
0.2703


 25.1691, 0.3059,  
0.2071


 70.4965, 0.3095,  
0.2367

 16.2031, 0.3035,  
0.1927


 93.0301, 0.3102,  
0.2436

 9.6680, 0.3000,  
0.1748


 119.9165, 0.3107,  
0.2496

 5.1794, 0.2945,  
0.1520

151.5402, 0.3111,  
0.2548

 2.3529, 0.2852,  
0.1223

188.2856, 0.3114,  
0.2594

 0.8015, 0.2682,  
0.0835

230.5371, 0.3117,


 0.0000, 0.2428,


0.2635


0.0000


278.6790, 0.3119,  
0.2671

 0.0000, 0.0000,  
0.0000


 36.9504, 0.3075,  
0.2188

 36.9504, 0.3075,  
0.2188


 31.0938, 0.3055,  
0.1961

 44.1953, 0.3092,  
0.2435


 26.5272, 0.3031,  
0.1763

 52.9084, 0.3106,  
0.2692


 23.1472, 0.3006,  
0.1604

 63.1693, 0.3117,  
0.2949

 20.8323, 0.2979,  
0.1489

 75.0505, 0.3125,  
0.3199

 19.4346, 0.2951,  
0.1417

 88.6199, 0.3130,  
0.3438

■ 18.8814, 0.2933,  
0.1390

■ 94.9656, 0.3141,  
0.3531

■ 95.3956, 0.3157,  
0.3530

■ 95.8316, 0.3173,  
0.3529

■ 96.2737, 0.3189,  
0.3528

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



36.9504, 0.2264, 0.1949



36.9504, 0.3075, 0.2188



36.9504, 0.4041, 0.2641

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



36.9504, 0.3075, 0.2188



36.9504, 0.4561, 0.4527



36.9504, 0.1703, 0.3010

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



36.9504, 0.3075, 0.2188



64.4223, 0.3130, 0.4626

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



36.9504, 0.2178, 0.4039



36.9504, 0.3075, 0.2188



36.9504, 0.3823, 0.4986

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



36.9504, 0.3075, 0.2188



36.9504, 0.4949, 0.3880



36.9504, 0.2954, 0.4874



36.9504, 0.1576, 0.2297



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



36.9504, 0.3075, 0.2188



36.9504, 0.4585, 0.3024



36.9504, 0.2954, 0.4874



36.9504, 0.1822, 0.3333

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



36.9520, 0.3075, 0.2188



79.9669, 0.3118, 0.2966



29.7914, 0.2332, 0.2088



16.4632, 0.3115, 0.2909



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



36.9520, 0.3075, 0.2188



39.8694, 0.3058, 0.1992



36.7682, 0.3562, 0.2594



14.5316, 0.3121, 0.3057



10.6183, 0.2938, 0.1392



0.8075, 0.2980, 0.1415



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



34.8716, 0.4154, 0.3167



37.0777, 0.4478, 0.3148



64.7510, 0.2857, 0.4119



14.3933, 0.3275, 0.3265



9.5725, 0.6268, 0.3226

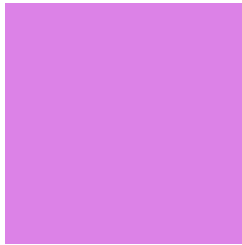


0.7159, 0.5976, 0.3066



# Previews

## White Background



This preview shows how the Yxy color 36.9504, 0.3075, 0.2188 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

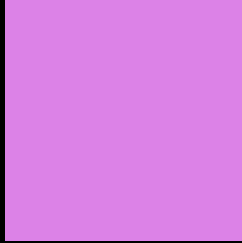
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 36.9504, 0.3075, 0.2188 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

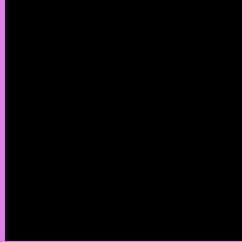
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 36.9504, 0.3075, 0.2188**

## Background



This preview shows how black text looks on a background with the Yxy color 36.9504, 0.3075, 0.2188.



This preview shows how white text looks on a background with the Yxy color 36.9504, 0.3075, 0.2188.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



**Original Color**

36.9504, 0.3075, 0.2188

**Protanopia**

37.4556, 0.2258, 0.2114

**Deuteranopia**

37.2966, 0.2514, 0.2455



## Tritanopia

36.7280, 0.3680, 0.3141

# Trichromacy



## Original Color

36.9504, 0.3075, 0.2188



## Protanomaly

36.2530, 0.2496, 0.2122



## Deuteranomaly

36.1294, 0.2690, 0.2326



## Tritanomaly

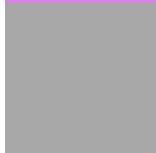
36.5551, 0.3450, 0.2749

# Monochromacy



## Original Color

36.9504, 0.3075, 0.2188



## Achromatopsia

39.1572, 0.3127, 0.3290



## Achromatomaly

37.4376, 0.3112, 0.2810

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.9504, 0.3075, 0.2188 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(220, 130, 231)` looks like.

```
.text, #text, p{  
    color:rgb(220, 130, 231)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(220, 130, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 130, 231) }
```

## Border

The CSS property to change the border of an element to Yxy 36.9504, 0.3075, 0.2188 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(220, 130, 231) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(220, 130, 231) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(220, 130, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 130, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 130, 231);  
box-shadow:4px 4px 4px 4px rgb(220, 130,  
231) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.9504, 0.3075, 0.2188 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 130, 231) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(220,  
130, 231) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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